

# SCHEMATIC OF THE HEATHKIT®


## MODEL IM-4130 / SM-4130 FREQUENCY/PERIOD METER


### NOTES:

1. COMPONENTS ARE NUMBERED IN THE FOLLOWING GROUPS:

1- 99	MOUNTED ON CHASSIS.
101-199	MOUNTED ON INPUT CIRCUIT BOARD.
201-299	MOUNTED ON DISPLAY CIRCUIT BOARD.
301-399	MOUNTED ON MAIN CIRCUIT BOARD.

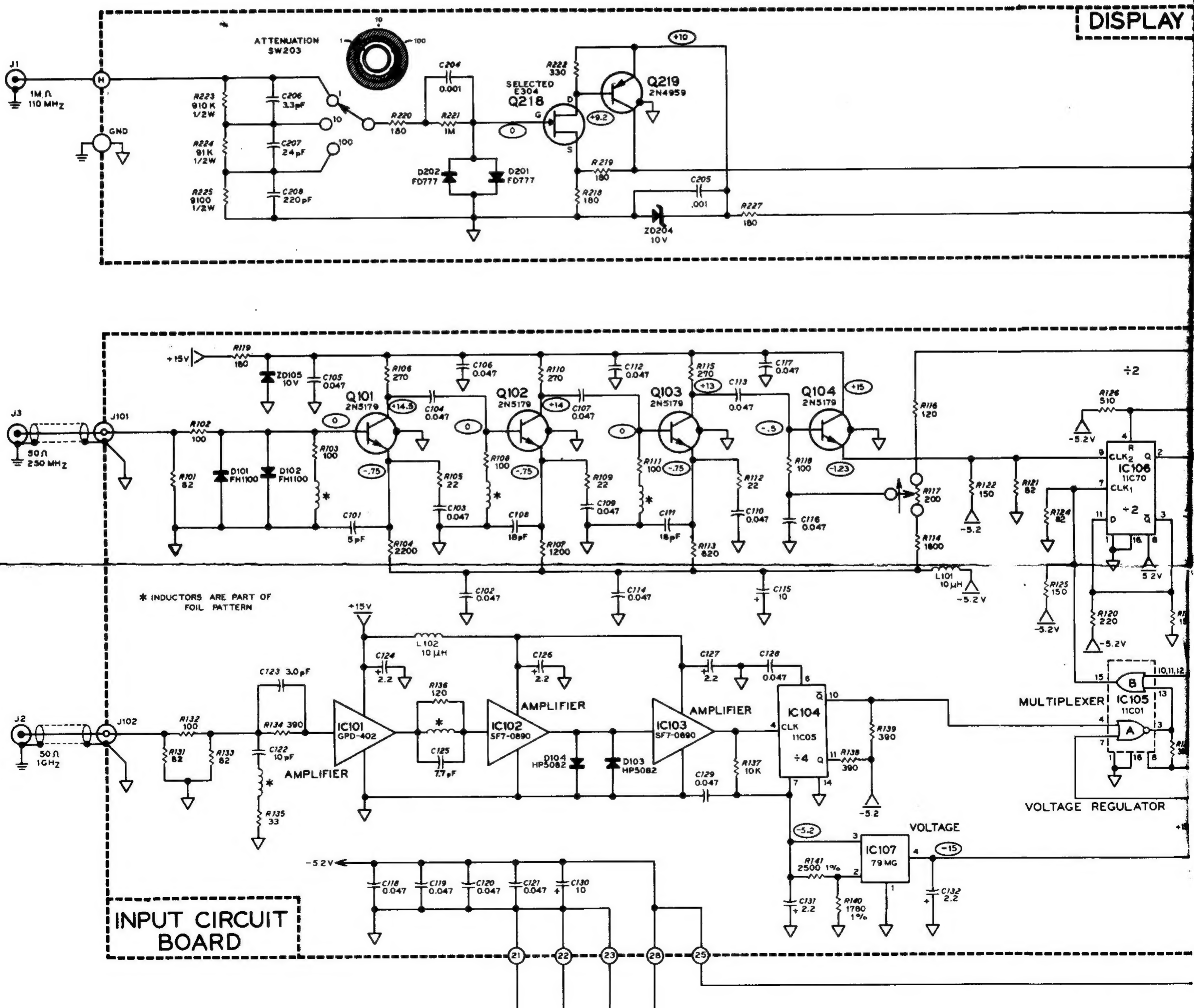
3.  THIS SYMBOL INDICATES CHASSIS GROUND.

4.  THIS SYMBOL WITH A LETTER INDICATES A CIRCUIT BOARD WIRE CONNECTION. THIS SYMBOL WITH NUMBER INDICATES A CIRCUIT BOARD-TO-CIRCUIT BOARD "F-PIN" CONNECTION.




5.  THIS SYMBOL INDICATES A DC VOLTAGE MEASUREMENT TAKEN WITH A HIGH-IMPEDANCE INPUT VOLTAGE METER FROM THE POINT INDICATED TO CIRCUIT GROUND.

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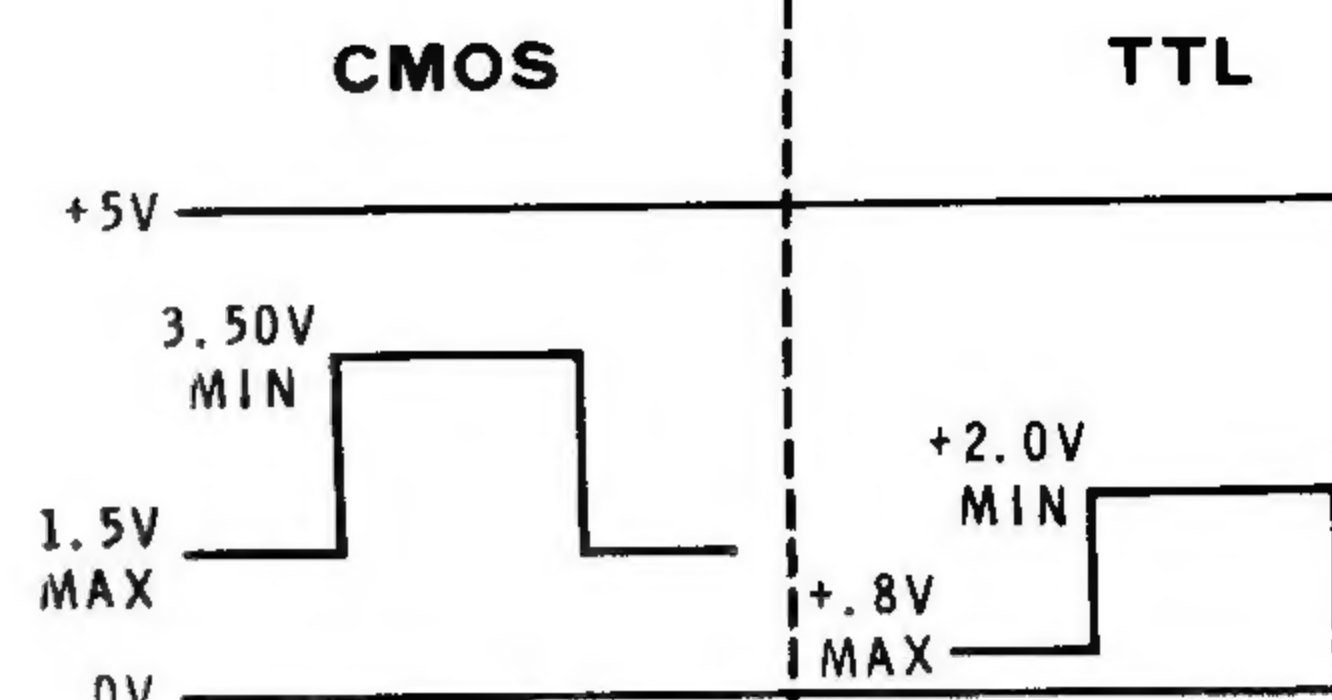
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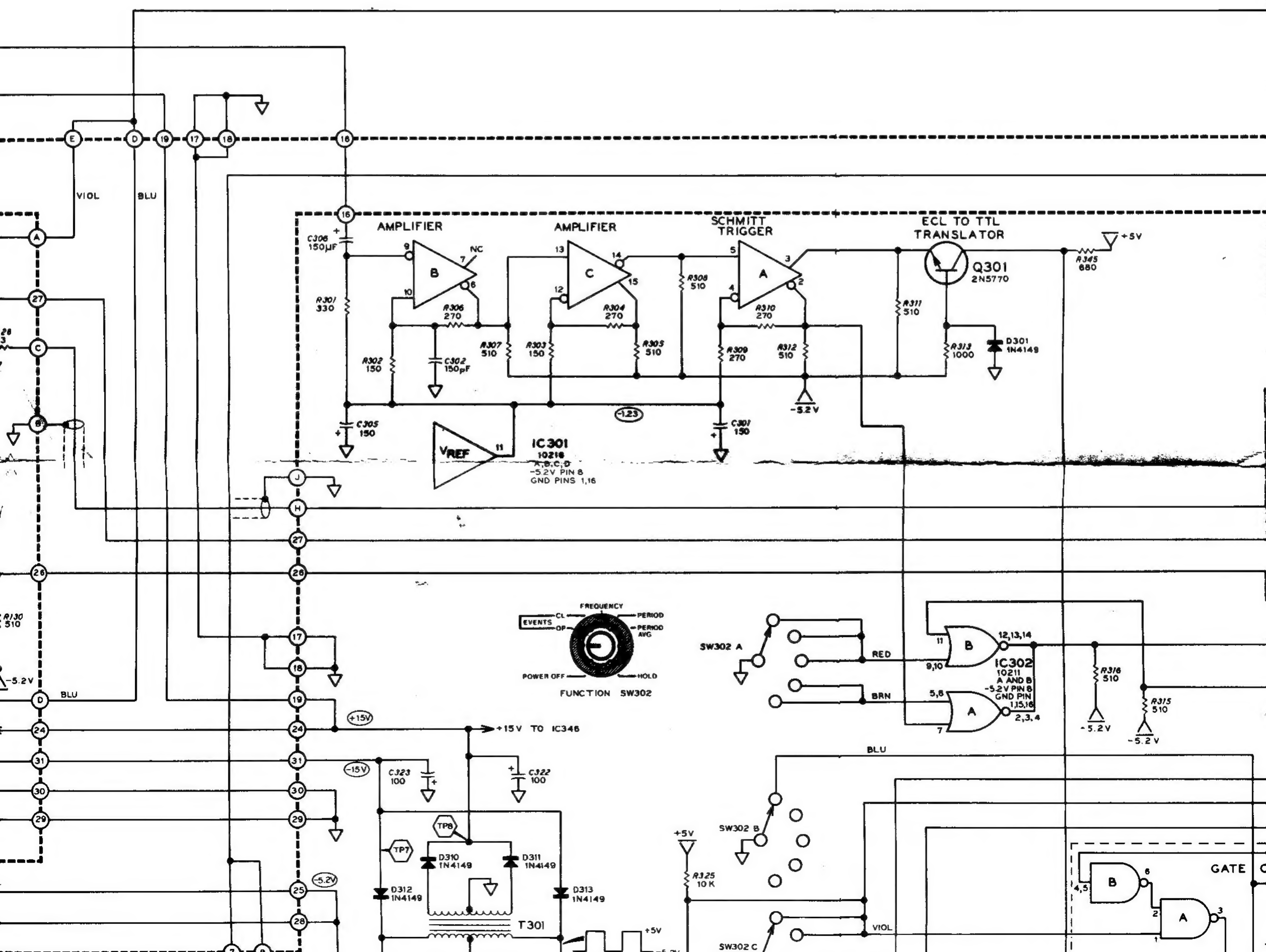
6.  THIS SYMBOL INDICATES A CONNECTION TO A VOLTAGE SOURCE.
7.  THIS SYMBOL INDICATES A TEST POINT.
8.  ARROW INDICATES CLOCKWISE ROTATION.
9. ALL RESISTORS ARE 1/4-WATT, 5% UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (K=1,000, M=1,000,000).
10. CAPACITORS ARE IN  $\mu$ F (MICROFARADS) UNLESS MARKED OTHERWISE.
11. PARTS IN SHADED AREAS ARE CRITICAL FOR CONTINUED SAFETY. REPLACE THEM ONLY WITH PARTS OF THE SAME RATING OR WITH THE PROPER HEATH PARTS.
12. IC PINS NOT SHOWN, ARE NOT CONNECTED IN THE CIRCUITS.

## LOGIC LEVEL



THESE LOGIC LEVELS ARE THE MINIMUM YOU SHOULD FIND WHEN TROUBLESHOOTING.

## CIRCUIT BOARD





ELS

ECL

-0.9V  
MIN  
-1.58V  
MAX

AND MAXIMUM LEVELS  
TING THE CIRCUITRY.

AND MAXIMUM LEVELS  
TING THE CIRCUITRY.

